IN THE UNITED STATES PATENT AND TRADEMARK OFFICE.

Application No. : 10/740,261

Inventor(s) : Osman Polat, et al.
Filed : December 18, 2003

Art Unit : 1794

Examiner : Andrew T. Piziali

Docket No. : 9475

Confirmation No. : 1913

Customer No. : 27752

Title : FIBROUS STRUCTURE COMPRISING

CELLULOSIC AND SYNTHETIC FIBERS

APPEAL BRIEF

Mail Stop Appeal Brief - Patents Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450

This Brief is filed pursuant to the appeal from the decision communicated in the Office Action mailed on January 27, 2010.

A timely Notice of Appeal was filed on April 16, 2010.

Appl. No. 10/740,261 Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

REAL PARTY IN INTEREST

The real party in interest is The Procter & Gamble Company of Cincinnati, Ohio.

RELATED APPEALS AND INTERFERENCES

There are no known related appeals, interferences, or judicial proceedings.

STATUS OF CLAIMS

Claims 1-5, 8-15, and 18-20 are rejected.

Claims 1-5, 8-15, and 18-20 are appealed.

A complete copy of the appealed claims is set forth in the Claims Appendix attached herein.

STATUS OF AMENDMENTS

A Reply After Final Rejection was filed on March 29, 2010. No amendment to the claims was made after receiving the Final Rejection.

SUMMARY OF CLAIMED SUBJECT MATTER

In one example of the present invention, as claimed in Claim 1, a fibrous structure (Page 5, lines 13-17; Fig. 10, 100) comprising at least two

layers (Page 2, lines 22-25; Fig. 10) wherein at least one of the layers (Page 2. lines 22-25; Fig. 10) of the structure (Page 5, lines 13-17; Fig. 10) comprises randomly distributed (Page 10, lines 30-32; Page 18, lines 24-29; Fig. 10) softwood fibers (Page 4, lines 22-25; Fig. 10, 103) and at least one other layer (Page 2, lines 22-25) of the structure (Page 5, lines 13-17; Fig. 10) comprises a mixture (Page 18, lines 27-29; Fig. 10, 104) of short cellulosic fibers and synthetic fibers (Page 18, lines 27-29; Fig. 10, 101), wherein the at least one other layer (Page 2, lines 22-25) is disposed on the layer (Page 2, lines 22-25) comprising randomly distributed (Page 10, lines 30-32; Page 18, lines 24-29; Fig. 10) softwood fibers (Page 4, lines 22-25; Fig. 10, 103) in a non-random pattern (Page 18, lines 27-29) of regions (Fig. 10) of different basis weight (Fig. 10) comprising regions (Fig. 10) containing the mixture (Page 18, lines 27-29; Fig. 10) of short cellulosic fibers (Page 18, lines 27-29) and synthetic fibers (Page 18, lines 27-29; Fig. 10, 101) and regions (Fig. 10) void of the mixture (Page 18, lines 27-29; Fig. 10) of short cellulosic fibers (Page 18, lines 27-29) and synthetic fibers (Page 18, lines 27-29; Fig. 10, 101), is provided.

In another example of the present invention, as claimed in Claim 2,

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

the mixture (Page 18, lines 27-29; Fig. 10) of short cellulosic fibers (Page

18, lines 27-29) and synthetic fibers (Page 18, lines 27-29; Fig. 10, 101)

have a synthetic fiber length to cellulosic fiber length ratio (Page 7, lines 20-

24) greater than about 1 (Page 7, lines 20-24), is provided.

In another example of the present invention, as claimed in Claim 3, the

mixture (Page 18, lines 27-29; Fig. 10) of short cellulosic fibers (Page 18,

lines 27-29) and synthetic fibers (Page 18, lines 27-29; Fig. 10, 101) have a

synthetic fiber length to cellulosic fiber length ratio (Page 7, lines 20-24)

between about 1 and about 20 (Page 7, lines 20-24), is provided.

In another example of the present invention, as claimed in Claim 4, the

mixture (Page 18, lines 27-29; Fig. 10) of short cellulosic fibers (Page 18.

lines 27-29) and synthetic fibers (Page 18, lines 27-29; Fig. 10, 101) have a

PTP factor of greater than about 0.75 (Page 7, lines 24-28), is provided.

In another example of the present invention, as claimed in Claim 5, the

short cellulosic fibers (Page 18, lines 27-29) are hardwood fibers (Page 5,

lines 4-8), is provided.

In another example of the present invention, as claimed in Claim 8, the

short cellulosic fibers (Page 18, lines 27-29) have a length weighted average

fiber length of less than about 1 mm (Page 5, lines 4-8) and an average

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

cellulosic fiber width of less than about 18 micrometers (Page 7, lines 10-

14), is provided.

In another example of the present invention, as claimed in Claim 9, the

synthetic fibers (Page 18, lines 27-29; Fig. 10, 101) have a length weighted

average fiber length of more than about 2 mm and an average synthetic fiber

diameter of more than about 15 micrometers (Page 7, lines 13-17), is

provided.

In another example of the present invention, as claimed in Claim 10,

the softwood fibers (Page 4, lines 22-25; Fig. 10, 103) have a length

weighted average fiber length of greater than about 2 mm (Page 4, lines 22-

25) and an average cellulosic fiber width less than about 50 micrometers

(Page 7, lines 6-10), is provided.

In another example of the present invention, as claimed in Claim 11, at

least some of the synthetic fibers (Page 18, lines 27-29; Fig. 10, 101) are

bicomponent fibers (Page 6, lines 7-24), is provided.

In another example of the present invention, as claimed in Claim 12,

the bicomponent fibers (Page 6, lines 7-24) are polyester based (Page 6, line

7-24) or polyolefin based (Page 6, line 7-24), is provided.

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

In another example of the present invention, as claimed in Claim 13,

the mixture (Page 18, lines 27-29; Fig. 10) of short cellulosic fibers (Page

18. lines 27-29) and synthetic fibers (Page 18, lines 27-29; Fig. 10, 101) has

a coarseness value of less than about 50mg/100m (Page 7, lines 28-32), is

provided.

In another example of the present invention, as claimed in Claim 14,

the mixture (Page 18, lines 27-29; Fig. 10) of short cellulosic fibers (Page

18. lines 27-29) and synthetic fibers (Page 18, lines 27-29; Fig. 10, 101) has

a coarseness value of less than about 25mg/100m (Page 7, lines 28-32), is

provided.

In another example of the present invention, as claimed in Claim 15, at

least some of the synthetic fibers (Page 18, lines 27-29; Fig. 10, 101) are co-

joined (Page 4, lines 15-17) to at least some of the cellulosic fibers and/or

other synthetic fibers (Page 16, lines 25-33; Fig. 12), is provided.

In another example of the present invention, as claimed in Claim 18,

the fibrous structure (Page 5, lines 13-17; Fig. 10, 100) is creped, uncreped

or embossed (Page 16, lines 12-16; Page 18, line 30 to Page 19, line 5), is

provided.

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

In another example of the present invention, as claimed in Claim 19,

the fibrous structure (Page 5, lines 13-17; Fig. 10, 100) is combined with a

separate structure to form a multi-ply article (Page 18, lines 31-33), is

provided.

In another example of the present invention, as claimed in Claim 20,

the fibrous structure (Page 5, lines 13-17; Fig. 10, 100) further includes latex

(Page 19, lines 4-5) disposed on at least a portion the fibrous structure (Page

5, lines 13-17; Fig. 10, 100).

GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

Rejection of Claims 1, 5, and 18-20 under 35 U.S.C. §103(a) as allegedly

defining obvious subject matter over U.S. Patent No. 5,538,595 to Trokhan

et al. ("Trokhan '595") in view of any one U.S. Patent No. 2,113,431 to

Milliken ("Milliken"), U.S. Patent No. 3,034,180 to Greiner et al.

("Greiner"), U.S. Patent No. 5,245,025 to Trokhan et al. ("Trokhan '025"),

or U.S. Patent No. 5,328,565 to Rasch et al. ("Rasch")

i. Claims 1, 5, and 18-20

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

Rejection of Claims 2 and 3 under 35 U.S.C. §103(a) as allegedly defining

obvious subject matter over Trokhan '595 in view of any one Milliken,

Greiner, Trokhan '025, or Rasch and further in view of U.S. Patent No.

6,548,731 to Mizutani et al. ("Mizutani")

i. Claim 2

ii. Claim 3

Rejection of Claims 4, 8-12, and 15 under 35 U.S.C. §103(a) as allegedly

defining obvious subject matter over Trokhan '595 in view of any one

Milliken, Greiner, Trokhan '025, or Rasch and further in view of WO

93/14267 to Manning ("Manning")

i. Claim 4

ii. Claim 8

iii. Claim 9

iv. Claim 10

v. Claim 11

vi. Claim 12

vii. Claim 15

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

Rejection of Claim 9 under 35 U.S.C. §103(a) as allegedly defining obvious

subject matter over Trokhan '595 in view of any one Milliken, Greiner,

Trokhan '025, or Rasch and further in view of U.S. Patent No. 4,202,959 to

Henbest et al. ("Henbest")

i. Claim 9

Rejection of Claims 13 and 14 under 35 U.S.C. §103(a) as allegedly defining

obvious subject matter over Trokhan '595 in view of any one Milliken,

Greiner, Trokhan '025, or Rasch and further in view of any one U.S. Patent

No. 5,405,499 to Vinson ("Vinson") or U.S. Patent No. 5,409,572 to

Kershaw et al. ("Kershaw")

i. Claim 13

ii. Claim 14

ARGUMENTS

Rejection of Claims 1, 5, and 18-20 under 35 U.S.C. §103(a) as allegedly

defining obvious subject matter over U.S. Patent No. 5,538,595 to Trokhan

et al. ("Trokhan '595") in view of any one U.S. Patent No. 2,113,431 to

Milliken ("Milliken"), U.S. Patent No. 3,034,180 to Greiner et al.

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

("Greiner"), U.S. Patent No. 5,245,025 to Trokhan et al. ("Trokhan '025"),

or U.S. Patent No. 5,328,565 to Rasch et al. ("Rasch")

i. Claims 1, 5, and 18-20

Claims 1, 5, and 18-20 are rejected by the Examiner under 35 U.S.C.

\$103(a) as allegedly defining obvious subject matter over U.S. Patent No.

5,538,595 to Trokhan et al. ("Trokhan `595") in view of any one U.S. Patent

No. 2,113,431 to Milliken ("Milliken"), U.S. Patent No. 3,034,180 to

Greiner et al. ("Greiner"), U.S. Patent No. 5,245,025 to Trokhan et al.

("Trokhan '025"), or U.S. Patent No. 5,328,565 to Rasch et al. ("Rasch").

The Examiner asserts that Trokhan `595 discloses a fibrous tissue structure

comprising at least two randomly distributed layers wherein at least one of

the layers of the structure includes long cellulosic fibers, at least one of the

layers includes short cellulosic fibers, and that synthetic fibers may be used

in combination with the cellulosic fibers. The Examiner further asserts that

Trokhan '595 discloses that at least one layer is disposed on the layer

comprising the long cellulosic fibers. The Examiner recognizes that

Trokhan '595 does not appear to specifically mention that the layer is

disposed on the layer comprising the long cellulosic fibers in a non-random

pattern of regions of different basis weight. The Examiner asserts that the

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

secondary references: Milliken, Greiner, Trokhan '025, and Rasch teach that

it is known in the tissue paper art to dispose an outer layer in a non-random

pattern of regions of different basis weight motivated by a desire to increase

performance, increase fluid permeability, and/or improve appearance.

The Examiner further asserts in the Advisory Action mailed April 5,

2010 that the aperture areas taught by the prior art references may be

considered part of the layers. As a result of the Examiner's interpretation of

the apertures in the prior art structures, the Examiner apparently has

concluded that the apertures would be considered one of the different basis

weight regions of the layer comprising a mixture of short cellulosic fibers

and synthetic fibers that are disposed on the layer comprising softwood

fibers, wherein the aperture would be a region that is void of the mixture of

short cellulosic fibers and synthetic fibers.

Contrary to the Examiner's conclusion, Appellant respectfully submits

that the aperture contains neither the layer comprising the short cellulosic

fibers and synthetic fibers nor the layer comprising the softwood fibers upon

which the layer comprising the mixture is disposed. Appellant submits that

the aperture if clearly void of both layers.

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

Appellant respectfully submits that Trokhan '595 in view of any one

of Milliken, Greiner, Trokhan '025, and Rasch fails to teach each and every

element of Claim 1, the independent claim, because Trokhan '595 in view of

Milliken, Greiner, Trokhan '025, and Rasch fail to teach a layer comprising

a mixture of short cellulosic fibers and synthetic fibers that is disposed on a

layer of long cellulosic fibers in a non-random pattern of regions of different

basis weight wherein the non-random pattern comprises regions that contain

the mixture of short cellulosic fibers and synthetic fibers and regions that are

void of the mixture.

Appellant submits that Milliken fails to teach a layer comprising a

mixture of short cellulosic fibers and synthetic fibers that is disposed on a

layer of long cellulosic fibers in a non-random pattern of regions of different

basis weight wherein the non-random pattern comprises regions that contain

the mixture of short cellulosic fibers and synthetic fibers and regions that are

void of the mixture. Appellant submits that Milliken teaches a tissue that has

apertures that extend through the entire thickness of the tissue. Therefore,

even if Milliken taught a tissue comprising two layers, which Appellant

submits it does not, the two layers would be coextensive since the apertures

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

would extend through both layers therefore one layer would not be disposed

on the other layer in a non-random pattern.

Appellant submits that Greiner fails to teach a layer comprising a

mixture of short cellulosic fibers and synthetic fibers that is disposed on a

layer of long cellulosic fibers in a non-random pattern of regions of different

basis weight wherein the non-random pattern comprises regions that contain

the mixture of short cellulosic fibers and synthetic fibers and regions that are

void of the mixture. Appellant submits that Greiner teaches a tissue that has

apertures that extend through the entire thickness of the tissue. Therefore,

even if Greiner taught a tissue comprising two layers, which Appellant

submits it does not, the two layers would be coextensive since the apertures

would extend through both layers therefore one layer would not be disposed

on the other layer in a non-random pattern.

Appellant submits that Trokhan '025 fails to teach a layer comprising

a mixture of short cellulosic fibers and synthetic fibers that is disposed on a

layer of long cellulosic fibers in a non-random pattern of regions of different

basis weight wherein the non-random pattern comprises regions that contain

the mixture of short cellulosic fibers and synthetic fibers and regions that are

void of the mixture. Appellant submits that Trokhan '025 teaches a tissue

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

that has at least three regions disposed in a non-random repeating pattern.

wherein the regions differ in basis weight. Appellant submits that Trokhan

'025 fails to teach a layer comprising a mixture of short cellulosic fibers and

synthetic fibers that is disposed in regions of that contain the mixture and

regions that are void of the mixture on a layer comprising long cellulosic

fibers. Appellant submits that Trokhan '025's layers are coextensive such

that the one layer is not disposed on the other layer in a non-random pattern

comprising regions that are void of the fiber mixture of one layer.

Appellant submits that Rasch fails to teach a layer comprising a

mixture of short cellulosic fibers and synthetic fibers that is disposed on a

layer of long cellulosic fibers in a non-random pattern of regions of different

basis weight wherein the non-random pattern comprises regions that contain

the mixture of short cellulosic fibers and synthetic fibers and regions that are

void of the mixture. Appellant submits that Rasch teaches a tissue that has at

least three regions disposed in a non-random repeating pattern, wherein the

regions differ in basis weight. Appellant submits that Rasch fails to teach a

layer comprising a mixture of short cellulosic fibers and synthetic fibers that

is disposed in regions of that contain the mixture and regions that are void of

the mixture on a layer comprising long cellulosic fibers. Appellant submits

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

that Rasch's layers are coextensive such that the one layer is not disposed on

the other layer in a non-random pattern comprising regions that are void of

the fiber mixture of one layer.

In light of the foregoing, Appellant submits that Claim 1 is not

rendered obvious over Trokhan `525 in view of any one of Milliken, Greiner,

Trokhan '025, and Rasch. MPEP 2143.03. Further, Appellant submits that

Claims 5 and 18-20, which ultimately depend from Claim 1, are not rendered

obvious over Trokhan '525 in view of any one of Milliken, Greiner, Trokhan

'025, and Rasch. MPEP 2143.03.

Rejection of Claims 2 and 3 under 35 U.S.C. §103(a) as allegedly defining

obvious subject matter over Trokhan '595 in view of any one Milliken,

Greiner, Trokhan '025, or Rasch and further in view of U.S. Patent No.

6,548,731 to Mizutani et al. ("Mizutani")

Claim 2.

Claim 2 is rejected by the Examiner under 35 U.S.C. §103(a) as

allegedly defining obvious subject matter over Trokhan '595 in view of any

one Milliken, Greiner, Trokhan '025, or Rasch, all discussed above, and

further in view of U.S. Patent No. 6,548,731 to Mizutani et al. ("Mizutani").

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

The Examiner recognizes that Trokhan '595, Milliken, Greiner, Trokhan

'025, and Rasch, all fail to teach a synthetic fiber to short fiber ratio. The

Examiner asserts that Mizutani teaches a synthetic fiber to short fiber ratio of

between about 1 and 13.

Appellant respectfully submits that Mizutani fails to overcome the

deficiencies noted in the prior art discussed above; namely, Mizutani fails to

overcome the lack of teaching in the prior art about a fibrous structure

comprising a layer comprising a mixture of short cellulosic fibers and

synthetic fibers that is disposed upon a layer comprising softwood fibers,

wherein the layer comprising the mixture is disposed on the softwood fiber

layer in a non-random pattern of different basis weight regions wherein the

regions comprise regions that comprise the mixture layer and regions that are

void of the mixture layer, wherein the synthetic fiber length to cellulosic

fiber length ratio is greater than about 1. Therefore, Appellant respectfully

submits that Claim 2 is not rendered obvious over Trokhan `595 in view of

any one Milliken, Greiner, Trokhan '025, or Rasch and further in view of

Mizutani. MPEP 2143.03.

ii. Claim 3

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

Claim 3 is rejected by the Examiner under 35 U.S.C. §103(a) as

allegedly defining obvious subject matter over Trokhan `595 in view of any

one Milliken, Greiner, Trokhan '025, or Rasch and further in view of

Mizutani, all discussed above. The Examiner recognizes that Trokhan '595,

Milliken, Greiner, Trokhan '025, and Rasch, all fail to teach a synthetic fiber

to short fiber ratio. The Examiner asserts that Mizutani teaches a synthetic

fiber to short fiber ratio of between about 1 and 13.

Appellant respectfully submits that Mizutani fails to overcome the

deficiencies noted in the prior art discussed above; namely, Mizutani fails to

overcome the lack of teaching in the prior art about a fibrous structure

comprising a layer comprising a mixture of short cellulosic fibers and

synthetic fibers that is disposed upon a layer comprising softwood fibers,

wherein the layer comprising the mixture is disposed on the softwood fiber

layer in a non-random pattern of different basis weight regions wherein the

regions comprise regions that comprise the mixture layer and regions that are

void of the mixture layer, wherein the synthetic fiber length to cellulosic

fiber length ratio is between about 1 and about 20. Therefore, Appellant

respectfully submits that Claim 3 is not rendered obvious over Trokhan `595

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

in view of any one Milliken, Greiner, Trokhan '025, or Rasch and further in

view of Mizutani, MPEP 2143.03.

Rejection of Claims 4, 8-12, and 15 under 35 U.S.C. §103(a) as allegedly

defining obvious subject matter over Trokhan '595 in view of any one

Milliken, Greiner, Trokhan '025, or Rasch and further in view of WO

93/14267 to Manning ("Manning")

i. Claim 4

Claim 4 is rejected by the Examiner under 35 U.S.C. §103(a) as

allegedly defining obvious subject matter over Trokhan `595 in view of any

one Milliken, Greiner, Trokhan '025, or Rasch, all discussed above, and

further in view of WO 93/14267 to Manning ("Manning"). The Examiner

recognizes that Trokhan '595, Milliken, Greiner, Trokhan '025, and Rasch,

all fail to teach a PTP factor between the synthetic fibers and the short fibers.

The Examiner asserts that Manning teaches a synthetic fiber to short fiber

PTP of greater than about 0.75.

Appellant respectfully submits that Manning fails to overcome the

deficiencies noted in the prior art discussed above; namely, Manning fails to

overcome the lack of teaching in the prior art about a fibrous structure

comprising a layer comprising a mixture of short cellulosic fibers and

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

synthetic fibers that is disposed upon a layer comprising softwood fibers,

wherein the layer comprising the mixture is disposed on the softwood fiber

layer in a non-random pattern of different basis weight regions wherein the

regions comprise regions that comprise the mixture layer and regions that are

void of the mixture layer, wherein the synthetic fiber to short fiber PTP is

greater than about 0.75. Therefore, Appellant respectfully submits that

Claim 4 is not rendered obvious over Trokhan '595 in view of any one

Milliken, Greiner, Trokhan '025, or Rasch and further in view of Manning.

MPEP 2143.03.

ii. Claim 8

Claim 8 is rejected by the Examiner under 35 U.S.C. §103(a) as

allegedly defining obvious subject matter over Trokhan `595 in view of any

one Milliken, Greiner, Trokhan '025, or Rasch and further in view of

Manning, all discussed above. The Examiner recognizes that Trokhan '595,

Milliken, Greiner, Trokhan '025, and Rasch, all fail to teach short cellulosic

fibers having a length weighted average fiber length of less than about 1 mm

and an average cellulosic fiber width of less than bout 18 µm. The Examiner

asserts that Manning teaches short cellulosic fibers having a length weighted

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

average fiber length of less than about 1 mm and an average cellulosic fiber

width of less than about 18 um.

Appellant respectfully submits that Manning fails to overcome the

deficiencies noted in the prior art discussed above; namely, Manning fails to

overcome the lack of teaching in the prior art about a fibrous structure

comprising a layer comprising a mixture of short cellulosic fibers and

synthetic fibers that is disposed upon a layer comprising softwood fibers,

wherein the layer comprising the mixture is disposed on the softwood fiber

layer in a non-random pattern of different basis weight regions wherein the

regions comprise regions that comprise the mixture layer and regions that are

void of the mixture layer, wherein the short cellulosic fibers have a length

weighted average fiber length of less than about 1 mm and an average

cellulosic fiber width of less than about 18 $\mu m.\,$ Therefore, Appellant

respectfully submits that Claim 8 is not rendered obvious over Trokhan `595

in view of any one Milliken, Greiner, Trokhan '025, or Rasch and further in

view of Manning. MPEP 2143.03.

iii. Claim 9

Claim 9 is rejected by the Examiner under 35 U.S.C. §103(a) as

allegedly defining obvious subject matter over Trokhan `595 in view of any

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

one Milliken, Greiner, Trokhan '025, or Rasch and further in view of

Manning, all discussed above. The Examiner recognizes that Trokhan '595,

Milliken, Greiner, Trokhan '025, and Rasch, all fail to teach synthetic fibers

having a length weighted average fiber length of more than about 2 mm and

a diameter of more than about 15 um. The Examiner asserts that Manning

teaches synthetic fibers having a length weighted average fiber length of

more than about 2 mm and a diameter of more than about 15 um.

Appellant respectfully submits that Manning fails to overcome the

deficiencies noted in the prior art discussed above; namely, Manning fails to

overcome the lack of teaching in the prior art about a fibrous structure

comprising a layer comprising a mixture of short cellulosic fibers and

synthetic fibers that is disposed upon a layer comprising softwood fibers,

wherein the layer comprising the mixture is disposed on the softwood fiber

layer in a non-random pattern of different basis weight regions wherein the

regions comprise regions that comprise the mixture layer and regions that are

void of the mixture layer, wherein the synthetic fibers have a length

weighted average fiber length of more than about 2 mm and a diameter of

more than about 15 μm . Therefore, Appellant respectfully submits that

Claim 9 is not rendered obvious over Trokhan '595 in view of any one

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

Milliken, Greiner, Trokhan '025, or Rasch and further in view of Manning.

MPEP 2143.03.

iv. Claim 10

Claim 10 is rejected by the Examiner under 35 U.S.C. §103(a) as

allegedly defining obvious subject matter over Trokhan `595 in view of any

one Milliken, Greiner, Trokhan '025, or Rasch and further in view of

Manning, all discussed above. The Examiner recognizes that Trokhan '595,

Milliken, Greiner, Trokhan '025, and Rasch, all fail to teach long cellulosic

fibers having a length weighted average fiber length of greater than about 2

mm and an average cellulosic fiber width of less than about 50 um. The

Examiner asserts that Manning teaches long cellulosic fibers having a length

weighted average fiber length of greater than about 2 mm and an average

cellulosic fiber width of less than about 50 μm .

Appellant respectfully submits that Manning fails to overcome the

deficiencies noted in the prior art discussed above; namely, Manning fails to

overcome the lack of teaching in the prior art about a fibrous structure

comprising a layer comprising a mixture of short cellulosic fibers and

synthetic fibers that is disposed upon a layer comprising softwood fibers,

wherein the layer comprising the mixture is disposed on the softwood fiber

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

layer in a non-random pattern of different basis weight regions wherein the

regions comprise regions that comprise the mixture layer and regions that are

void of the mixture layer, wherein the long cellulosic fibers have a length

weighted average fiber length of greater than about 2 mm and an average

cellulosic fiber width of less than about 50 µm. Therefore, Appellant

respectfully submits that Claim 10 is not rendered obvious over Trokhan

'595 in view of any one Milliken, Greiner, Trokhan '025, or Rasch and

further in view of Manning. MPEP 2143.03.

v. Claim 11

Claim 11 is rejected by the Examiner under 35 U.S.C. §103(a) as

allegedly defining obvious subject matter over Trokhan `595 in view of any

one Milliken, Greiner, Trokhan '025, or Rasch and further in view of

Manning, all discussed above. The Examiner recognizes that Trokhan '595,

Milliken, Greiner, Trokhan '025, and Rasch, all fail to teach bicomponent

synthetic fibers. The Examiner asserts that Manning teaches bicomponent

synthetic fibers.

Appellant respectfully submits that Manning fails to overcome the

deficiencies noted in the prior art discussed above; namely, Manning fails to

overcome the lack of teaching in the prior art about a fibrous structure

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

comprising a layer comprising a mixture of short cellulosic fibers and

synthetic fibers that is disposed upon a layer comprising softwood fibers,

wherein the layer comprising the mixture is disposed on the softwood fiber

layer in a non-random pattern of different basis weight regions wherein the

regions comprise regions that comprise the mixture layer and regions that are

void of the mixture layer, wherein the synthetic fibers comprise bicomponent

fibers. Therefore, Appellant respectfully submits that Claim 11 is not

rendered obvious over Trokhan '595 in view of any one Milliken, Greiner,

Trokhan '025, or Rasch and further in view of Manning. MPEP 2143.03.

vi. Claim 12

Claim 12 is rejected by the Examiner under 35 U.S.C. §103(a) as

allegedly defining obvious subject matter over Trokhan `595 in view of any

one Milliken, Greiner, Trokhan '025, or Rasch and further in view of

Manning, all discussed above. The Examiner recognizes that Trokhan `595,

Milliken, Greiner, Trokhan '025, and Rasch, all fail to teach polyester and/or

polyolefin based bicomponent synthetic fibers. The Examiner asserts that

Manning teaches polyester and/or polyolefin based bicomponent synthetic

fibers.

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

Appellant respectfully submits that Manning fails to overcome the

deficiencies noted in the prior art discussed above; namely, Manning fails to

overcome the lack of teaching in the prior art about a fibrous structure

comprising a layer comprising a mixture of short cellulosic fibers and

synthetic fibers that is disposed upon a layer comprising softwood fibers,

wherein the layer comprising the mixture is disposed on the softwood fiber

layer in a non-random pattern of different basis weight regions wherein the

regions comprise regions that comprise the mixture layer and regions that are

void of the mixture layer, wherein the synthetic fibers comprise polyester

and/or polyolefin based bicomponent fibers. Therefore, Appellant

respectfully submits that Claim 12 is not rendered obvious over Trokhan

'595 in view of any one Milliken, Greiner, Trokhan '025, or Rasch and

further in view of Manning. MPEP 2143.03.

vii. Claim 15

Claim 15 is rejected by the Examiner under 35 U.S.C. §103(a) as

allegedly defining obvious subject matter over Trokhan '595 in view of any

one Milliken, Greiner, Trokhan '025, or Rasch and further in view of

Manning, all discussed above. The Examiner recognizes that Trokhan `595,

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

Milliken, Greiner, Trokhan '025, and Rasch, all fail to teach that some of the

synthetic fibers are co-joined to at least some of the cellulosic fibers and/or

other synthetic fibers. The Examiner asserts that Manning teaches heat

fusing bicomponent fibers.

Appellant respectfully submits that Manning fails to overcome the

deficiencies noted in the prior art discussed above; namely, Manning fails to

overcome the lack of teaching in the prior art about a fibrous structure

comprising a layer comprising a mixture of short cellulosic fibers and

synthetic fibers that is disposed upon a layer comprising softwood fibers,

wherein the layer comprising the mixture is disposed on the softwood fiber

layer in a non-random pattern of different basis weight regions wherein the

regions comprise regions that comprise the mixture layer and regions that are

void of the mixture layer, wherein the synthetic fibers are co-joined to at

least some of the cellulosic fibers and/or other synthetic fibers. Therefore,

Appellant respectfully submits that Claim 15 is not rendered obvious over

Trokhan '595 in view of any one Milliken, Greiner, Trokhan '025, or Rasch

and further in view of Manning. MPEP 2143.03.

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

Rejection of Claim 9 under 35 U.S.C. §103(a) as allegedly defining obvious

subject matter over Trokhan '595 in view of any one Milliken, Greiner,

Trokhan '025, or Rasch and further in view of U.S. Patent No. 4,202,959 to

Henbest et al. ("Henbest")

i. Claim 9

Claim 9 is rejected by the Examiner under 35 U.S.C. §103(a) as

allegedly defining obvious subject matter over Trokhan '595 in view of any

one Milliken, Greiner, Trokhan '025, or Rasch, all discussed above, and

further in view of U.S. Patent No. 4,202,959 to Henbest et al. ("Henbest").

The Examiner recognizes that Trokhan '595, Milliken, Greiner, Trokhan

'025, and Rasch, all fail to teach synthetic fibers having a length weighted

average of more than about 2 mm and an average fiber width of not more

than 25 mm. The Examiner asserts that Henbest teaches synthetic fibers

having a length weighted average of more than about 2 mm and an average

fiber width of not more than 25 mm.

Appellant respectfully submits that Henbest fails to overcome the

deficiencies noted in the prior art discussed above; namely, Henbest fails to

overcome the lack of teaching in the prior art about a fibrous structure

comprising a layer comprising a mixture of short cellulosic fibers and

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

synthetic fibers that is disposed upon a layer comprising softwood fibers,

wherein the layer comprising the mixture is disposed on the softwood fiber

layer in a non-random pattern of different basis weight regions wherein the

regions comprise regions that comprise the mixture layer and regions that are

void of the mixture layer, wherein the synthetic fibers have a length

weighted average of more than about 2 mm and an average fiber width of not

more than 25 mm. Therefore, Appellant respectfully submits that Claim 9 is

not rendered obvious over Trokhan '595 in view of any one Milliken,

Greiner, Trokhan '025, or Rasch and further in view of Henbest. MPEP

2143.03.

Rejection of Claims 13 and 14 under 35 U.S.C. §103(a) as allegedly defining

obvious subject matter over Trokhan `595 in view of any one Milliken,

Greiner, Trokhan '025, or Rasch and further in view of any one U.S. Patent

No. 5,405,499 to Vinson ("Vinson") or U.S. Patent No. 5,409,572 to

Kershaw et al. ("Kershaw")

Claim 13

Claim 13 is rejected by the Examiner under 35 U.S.C. §103(a) as

allegedly defining obvious subject matter over Trokhan `595 in view of any

one Milliken, Greiner, Trokhan '025, or Rasch, all discussed above, and

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

further in view of any one U.S. Patent No. 5,405,499 to Vinson ("Vinson")

or U.S. Patent No. 5,409,572 to Kershaw et al. ("Kershaw"). The Examiner

recognizes that Trokhan '595, Milliken, Greiner, Trokhan '025, and Rasch,

all fail to teach a mixture of short cellulosic fibers and synthetic fibers

wherein the mixture has a coarseness value of less than about 50mg/100m.

The Examiner asserts that Vinson and Kershaw teach a mixture of short

cellulosic fibers and synthetic fibers having a coarseness value of less than

about 50mg/100m.

Appellant respectfully submits that Vinson and Kershaw fail to

overcome the deficiencies noted in the prior art discussed above; namely,

Vinson and Kershaw fail to overcome the lack of teaching in the prior art

about a fibrous structure comprising a layer comprising a mixture of short

cellulosic fibers and synthetic fibers that is disposed upon a layer comprising

softwood fibers, wherein the layer comprising the mixture is disposed on the

softwood fiber layer in a non-random pattern of different basis weight

regions wherein the regions comprise regions that comprise the mixture layer

and regions that are void of the mixture layer, wherein the mixture of short

cellulosic fibers and synthetic fibers has a coarseness value of less than about

50mg/100m. Therefore, Appellant respectfully submits that Claim 13 is not

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

rendered obvious over Trokhan '595 in view of any one Milliken, Greiner,

Trokhan '025, or Rasch and further in view of Vinson and/or Kershaw.

MPEP 2143.03.

ii. Claim 14

Claim 14 is rejected by the Examiner under 35 U.S.C. §103(a) as

allegedly defining obvious subject matter over Trokhan `595 in view of any

one Milliken, Greiner, Trokhan '025, or Rasch, all discussed above, and

further in view of any one Vinson or Kershaw. The Examiner recognizes

that Trokhan '595, Milliken, Greiner, Trokhan '025, and Rasch, all fail to

teach a mixture of short cellulosic fibers and synthetic fibers wherein the

mixture has a coarseness value of less than about 25mg/100m. The

Examiner asserts that Vinson and Kershaw teach a mixture of short

cellulosic fibers and synthetic fibers having a coarseness value of less than

about 25mg/100m.

Appellant respectfully submits that Vinson and Kershaw fail to

overcome the deficiencies noted in the prior art discussed above; namely,

Vinson and Kershaw fail to overcome the lack of teaching in the prior art

about a fibrous structure comprising a layer comprising a mixture of short

cellulosic fibers and synthetic fibers that is disposed upon a layer comprising

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

softwood fibers, wherein the layer comprising the mixture is disposed on the

softwood fiber layer in a non-random pattern of different basis weight

regions wherein the regions comprise regions that comprise the mixture layer

and regions that are void of the mixture layer, wherein the mixture of short

cellulosic fibers and synthetic fibers has a coarseness value of less than about

25mg/100m. Therefore, Appellant respectfully submits that Claim 14 is not

rendered obvious over Trokhan '595 in view of any one Milliken, Greiner,

Trokhan '025, or Rasch and further in view of Vinson and/or Kershaw.

MPEP 2143.03.

SUMMARY

In view of all of the above, it is respectfully submitted that Claims 1-5,

8-15, and 18-20 are not obvious over Trokhan `595 in view of any one

Milliken, Greiner, Trokhan '025, or Rasch, and further in view of Mizutani,

Manning, Henbest, Vinson and/or Kershaw. Accordingly, Appellant

respectfully requests allowance of the pending claims.

Authorization is hereby given to charge the fees required under 37

CFR §41.20(b)(2) or any additional fees that may be required, or credit any

overpayment, to Deposit Account No. 16-2480 in the name of The Procter & Gamble Company.

Respectfully submitted,

THE PROCTER & GAMBLE COMPANY

/C. Brant Cook/

Signature

C. Brant Cook

Typed or printed name Registration No. 39,151 299 East Sixth Street, 6th Floor

299 East Sixth Street, 6th Floor Cincinnati, Ohio 45202

Phone: (513) 983-1004 Fax: (513) 945-6786 Email: cook.cb@pg.com

Date: June 14, 2010 Customer No. 27752

(Appeal Brief.doc) Revised 12/04/2008

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

CLAIMS APPENDIX

1. A fibrous structure comprising at least two layers wherein at least one

of the layers of the structure comprises randomly distributed softwood fibers

and at least one other layer of the structure comprises a mixture of short

cellulosic fibers and synthetic fibers, wherein the at least one other layer is

disposed on the layer comprising randomly distributed softwood fibers in a

non-random pattern of regions of different basis weight comprising regions

containing the mixture of short cellulosic fibers and synthetic fibers and

regions void of the mixture of short cellulosic fibers and synthetic fibers.

2. The fibrous structure of Claim 1, wherein the mixture of short

cellulosic fibers and synthetic fibers have a synthetic fiber length to

cellulosic fiber length ratio greater than about 1.

3. The fibrous structure of Claim 1, wherein the mixture of short

cellulosic fibers and synthetic fibers have a synthetic fiber length to

cellulosic fiber length ratio between about 1 and about 20.

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752.

4. The fibrous structure of Claim 1, wherein the mixture of short

cellulosic fibers and synthetic fibers have a PTP factor of greater than about

0.75.

5. The fibrous structure of Claim 1 wherein the short cellulosic fibers are

hardwood fibers

The fibrous structure of Claim 1 wherein the short cellulosic fibers

have a length weighted average fiber length of less than about 1 mm and an

average cellulosic fiber width of less than about 18 micrometers.

9. The fibrous structure of Claim 1 wherein the synthetic fibers have a

length weighted average fiber length of more than about 2 mm and an

average synthetic fiber diameter of more than about 15 micrometers.

10. The fibrous structure of Claim 1 wherein the softwood fibers have a

length weighted average fiber length of greater than about 2 mm and an

average cellulosic fiber width less than about 50 micrometers.

Docket No. 9475

Appeal Brief dated June 14, 2010

Reply to Office Action mailed on January 27, 2010

Customer No. 27752

11. The fibrous structure of Claim 1 wherein at least some of the synthetic

fibers are bicomponent fibers.

12. The fibrous structure of Claim 11 wherein the bicomponent fibers are

polyester based or polyolefin based.

13. The fibrous structure of Claim 1 wherein the mixture of short

cellulosic fibers and synthetic fibers has a coarseness value of less than about

50mg/100m.

14. The fibrous structure of Claim 1 wherein the mixture of short

cellulosic fibers and synthetic fibers has a coarseness value of less than about

25mg/100m.

15. The fibrous structure of Claim 1 wherein at least some of the synthetic

fibers are co-joined to at least some of the cellulosic fibers and/or other

synthetic fibers.

- The fibrous structure of Claim 1 wherein the fibrous structure is creped, uncreped or embossed.
- 19. The fibrous structure of Claim 1 wherein the fibrous structure is combined with a separate structure to form a multi-ply article.
- 20. The fibrous structure of Claim 1 further including latex disposed on at least a portion the fibrous structure.

EVIDENCE APPENDIX

None

RELATED PROCEEDINGS APPENDIX

None